

### **ABSTRACT OF THE DISCLOSURE**

Methods and apparatus are disclosed for performing layer 2 authentication of a Mobile Node supporting Mobile IP in an SSG based network. Layer 2 information including at least one of a MAC address and username associated with the Mobile Node is obtained. An orphaned host object including the layer 2 information (e.g., MAC address) is then generated. The orphaned host object is then unorphaned when an IP address associated with the layer 2 information (e.g., MAC address) is received such that the unorphaned host object includes the IP address and the layer 2 information.